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1 [Seeing, hearing, and touching: putting it all together](#)

[Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensin](#)
August 2004 **SIGGRAPH '04: SIGGRAPH 2004 Course Notes**

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (20.64 MB)

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Bibliometrics: Downloads (6 Weeks): 465, Downloads (12 Months): 2138, Citi

2 [Scheduler-conscious synchronization](#)

[Leonidas J. Kontothanassis, Robert W. Wisniewski, Michael L. Scott](#)
February 1997 **Transactions on Computer Systems (TOCS)**, Volume 15 Iss

Publisher: ACM [Request Permissions](#)

Full text available: Pdf (682.20 KB)

Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 78, Citator

Efficient synchronization is important for achieving good performance in on large-scale multiprocessors. Most synchronization algorithms have b dedicated machine, with one application process per ...

Keywords: barriers, busy-waiting, kernel-user interaction, locks, mutu scalability, scheduling, synchronization

3 [Variations, margins, and statistics](#)

[Patrick McGuinness](#)
April 2008 **ISPD '08: Proceedings of the 2008 international symposium or**

Publisher: ACM

Full text available: Pdf (283.76 KB)

Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 134, Citatic

Design margining is used to account for design uncertainties in the mea thereby ensures that actual manufactured parts will operate in within pr and environmental variations become increasingly severe ...

Keywords: SSTA, design margins, process variations, yield

4 [Communications of the ACM: Volume 51 Issue 4](#)




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- April 2008 Communications of the ACM
 **Publisher:** ACM
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Bibliometrics: Downloads (6 Weeks): 447, Downloads (12 Months): 3020, Citations: 1

- 5 [Experience in using business scenarios to assess COTS component](#)
 Sharon Lymer, WenQian Liu, Steve Easterbrook
 October 2005 **CASCON '05**: Proceedings of the 2005 conference of the Center for Collaborative research
Publisher: IBM Press
 Full text available:  Pdf (2.99 MB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)
Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 79, Citations: 1

Constructing software by integrating commercial off-the-shelf (COTS) components is particularly in the IT service industry. For vendors of COTS components this is particularly challenging. To continually improve ...

Keywords: business scenario, commercial-off-the-shelf (COTS), software integration


- 6 [Interactive global illumination in dynamic scenes](#)
 Parag Toke, Fabio Pellacini, Bruce Walter, Donald P. Greenberg
 July 2002 **SI GGRAPH '02**: Proceedings of the 29th annual conference on interactive techniques
Publisher: ACM  Request Permissions
 Full text available:  Pdf (13.82 MB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)
Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 125, Citations: 1

In this paper, we present a system for interactive computation of global illumination in dynamic scenes. Our system uses a novel scheme for caching the results of a high-quality path tracer such as a bidirectional path tracer. The Shading Cache ...

Keywords: Monte Carlo techniques, illumination, parallel computing, ray rendering systems

Also published in:

July 2002 **Transactions on Graphics (TOG)** Volume 21 Issue 3

- 7 [Approximate symbolic analysis of large analog integrated circuits](#)
 Qicheng Yu, Carl Sechen
 November 1994 **ICCAD '94**: Proceedings of the 1994 IEEE/ACM international conference on computer-aided design
Publisher: IEEE Computer Society Press
 Full text available:  Pdf (906.10 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 25, Citations: 1


This paper describes a unified approach to the approximate symbolic analysis of large analog circuits. It combines two new approximation-during-computation techniques with the classical two-graph tree enumeration method. The ...

The EO-1 Autonomous Science Agent

Steve Chien, Rob Sherwood, Daniel Tran, Benjamin Cichy, Gregg Rabideau Davies, Rachel Lee, Dan Mandl, Stuart Frye, Bruce Trout, Jerry Hengemihle Shulman, Stephen Ungar, Thomas Brakke, Darrell Boyer, Jim Van Gaasbeek Doggett, Victor Baker, James Dohm, Felipe Ip

July 2004 **AAMAS '04: Proceedings of the Third International Joint Agents and Multiagent Systems - Volume 1**, Volume 1


Publisher: IEEE Computer Society

Full text available:  Pdf (766.20 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 36, Citation

An Autonomous Science Agent is currently flying onboard the Earth Observing satellite. The software enables the spacecraft to autonomously detect and respond to the Earth. The package includes software systems that perform ...

9 On bounding the delay of a critical path

 Leonard Lee, Li-C. Wang

November 2006 **ICCAD '06: Proceedings of the 2006 IEEE/ACM international conference on Computer-aided design**


Publisher: ACM

Full text available:  Pdf (269.58 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 15, Citation


Process variations cause different behavior of timing-dependent effects in digital circuit work, we analyze one example of timing-dependent effects, cross-coupled complex problem space created by considering coupling ...

10 VHDL-based design and design methodology for reusable high performance frequency synthesizers

 Ireneusz Janiszewski, Bernhard Hoppe, Hermann Meuth

June 2001 **DAC '01: Proceedings of the 38th conference on Design automation**

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (226.11 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 50, Citation

Design methodologies for high performance Direct Digital Frequency synthesizers are described. Traditional look-up tables (LUT) for sine and co-sine are mapped into a hybrid architecture. This implements DDS systems ...


Keywords: CORDIC algorithm, HDL-based design, design optimization synthesis

11 Practical implementation of a network analyzer for analog BIST applications

 Manuel J. Barragán, Diego Vázquez, Adoración Rueda

March 2008 **DATE '08: Proceedings of the conference on Design, automatic**


Publisher: ACM

Full text available:  Pdf (581.02 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 28, Citation

This paper presents a practical implementation of a network analyzer for
The network analyzer consists of a sinewave generator and a sinewave
capacitor techniques. Both the generator and the evaluator ...

12 [Proceedings of the 9th annual conference on Genetic and evolutionary](#)

 [Hod Lipson](#)

July 2007 **GECCO '07**: Proceedings of the 9th annual conference on Gene
computation

Publisher: ACM

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citations

These proceedings contain the papers presented at the *9th Annual Gene
Computation Conference* (GECCO-2007), held in London, UK, July 7-11
GECCO was held outside the US. This clearly proved ...

13 [ACM SIGSOFT Software Engineering Notes: Volume 29 Issue 5](#)



September 2004 SIGSOFT Software Engineering Notes

Publisher: ACM

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citations

14 [Parallel test generation and execution with Korat](#)



[Sasa Misailovic](#), [Aleksandar Milicevic](#), [Nemanja Petrovic](#), [Sarfraz Khurshid](#),
September 2007 **ESEC-FSE '07**: Proceedings of the the 6th joint meeting of
engineering conference and the ACM SIGSOFT symposium
software engineering

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (310.19 KB) Additional Information: [full citation](#), [abstract](#), [request permissions](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 140, Citations

We present novel algorithms for parallel testing of code that takes struc
The algorithms build on the Korat algorithm for constraint-based genera
test inputs. Given an imperative predicate that ...

Keywords: Korat, bounded-exhaustive testing, parallel testing, test da

15 [Proceedings of the conference on Design, automation and test in Eu](#)

[Rudy Lauwereins](#), [Jan Madsen](#)

April 2007 **DATE '07**: Proceedings of the conference on Design, automatic

Publisher: EDA Consortium

Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citations

Welcome to the DATE 07 Conference Proceedings. DATE combines the v
systems design conference and Europe's leading international exhibition
automation and test, from system level hardware and software impleme

16 [Designing and comparing automated test oracles for GUI-based soft](#)



[Qing Xie](#), [Atif M. Memon](#)

February 2007 **Transactions on Software Engineering and Methodology**

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (742.55 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 92, Downloads (12 Months): 507, Citations: 0

Test designers widely believe that the overall effectiveness and cost of software testing is largely on the type and number of test cases executed on the software. A *test oracle*, a mechanism that determines whether ...

Keywords: GUI state, GUI testing, Test oracles, graphical user interface

17 Recovering and using use-case-diagram-to-source-code traceability

 Mark Grechanik, Kathryn S. McKinley, Dewayne E. Perry

September 2007 **ESEC-FSE '07: Proceedings of the the 6th joint meeting of engineering conference and the ACM SIGSOFT symposium software engineering**

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (464.54 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 123, Citations: 0

Use case diagrams (UCDs) are widely used to describe requirements and software products. However, UCDs are loosely linked to source code, and the source code and elements of UCDs is a manual, tedious, ...


Keywords: LeanArt, machine learning, program analysis, traceability

18 Software unit test coverage and adequacy

 Hong Zhu, Patrick A. V. Hall, John H. R. May

December 1997 **Computing Surveys (CSUR)**, Volume 29 Issue 4

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (477.42 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 114, Downloads (12 Months): 966, Citations: 0

Objective measurement of test quality is one of the key issues in software research focus for the last two decades. Many test criteria have been proposed for purpose. Various kinds of rationales have been ...


Keywords: comparing testing effectiveness, fault detection, software unit test coverage, testing methods

19 Continuous program optimization: A case study

 Thomas Kistler, Michael Franz

July 2003 **Transactions on Programming Languages and Systems (TOPLAS)**

Publisher: ACM  [Request Permissions](#)


Full text available:  Pdf (877.67 KB) Additional Information: [full citation](#), [abstract](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 191, Citations: 0

Much of the software in everyday operation is not making optimal use o actually runs. Among the reasons for this discrepancy are hardware/sof modularization overheads introduced by software engineering considera



Keywords: Dynamic code generation, continuous program optimization

20 [Reflective physical prototyping through integrated design, test, and e](#)

 [Björn Hartmann, Scott R. Klemmer, Michael Bernstein, Leith Abdulla, Bran](#)
[Mosher, Jennifer Gee](#)

October 2006 **UIST '06**: Proceedings of the 19th annual ACM symposium o technology

Publisher: ACM  [Request Permissions](#)

Full text available:  [Avi \(23:28 MIN\)](#),  [Pdf \(6.50 MB\)](#) Additional Information: [full citation terms](#)

Bibliometrics: Downloads (6 Weeks): 307, Downloads (12 Months): 549, Citat




Prototyping is the pivotal activity that structures innovation, collaborati
Prototypes embody design hypotheses and enable designers to test thei
thinking-by-doing activity foregrounds *iteration* ...

Keywords: design thinking, design tools, information appliances, integ
prototyping, toolkits

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